

Work Order ID 55218

Page 1

January 12, 2010 1:25:52 PM

Item ID: D4016-1

Accept



Setup Start



Revision ID:

Item Name: Hinge Half, Base

Stop



Start Date: 1/12/10 Start Qty: 3.00



Cust Item ID:

Required Date: 1/25/10 Req'd Qty: 3.00



Customer:

Reference:

Approvals:

Process Plan:

Date: 10-1-12

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr P1

MATERIAL CERTIFICATION

D4016

A-PRELIM

REQ'D UPON DELIVERY

MF 10-1-18

100



Cut blanks as per folio

0.00

H.A 10/01/17

3

Ø

Bandsaw

Memo

0.00

Jeaspa Bandsaw

CUT BLANK .875" LONG

110



HAAS 1

HAAS CNC vertical machine #1

Memo

0.00

MACHINE AS PER FOLIO FA869 AND DWG
FOLIO REV: A
DWG REV: A

H.A 10/01/17

3

Ø

DEBURR

PRELIMINARY ISSUE

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 55218

January 12, 2010 1:25:52 PM



Page 2

Item ID: D4016-1

Accept



Setup Start



Revision ID:

Item Name: Hinge Half, Base

Stop



Start Date: 1/12/10 Start Qty: 3.00



Cust Item ID:

Required Date: 1/25/10 Req'd Qty: 3.00



Customer:

Reference:

Approvals:

Process Plan: _____ Date: _____

Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____

SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120



QC2- Inspect parts off machine FAI/FAIB

0.00

8.8 10/01/17

3

0

QC

Memo

Quality Control

130



QC8- Inspect parts - second check

0.00

2) 8101018

(43)

QC

Memo

Quality Control

160

Identify as per dwg & Stock Location: Packt

0.00

D 10.01.27

Packaging

Memo

Packaging

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 55218

Page 3

January 12, 2010 1:25:52 PM

Item ID: D4016-1

Accept



Setup Start



Revision ID:

Item Name: Hinge Half, Base

Stop



Start Date: 1/12/10 Start Qty: 3.00



Cust Item ID:

Required Date: 1/25/10 Req'd Qty: 3.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center ID

170



QC

Quality Control

Operation
Description

QC21- Final Inspection - Work Order Release

Set Up/
Run Hours

0.00

Draw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Memo

0.00

*M. Prototype
Basket test.
10.01.30*

*MF
10-1-13*

POSITIVE RECD

EFFECTIVE 1/12/2010RELEASED 1/12/2010

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 1

January 12, 2010 1:25:57 PM

Work Order ID: 55218



Parent Item: D4016-1



Parent Item Name: Hinge Half, Base

Start Date: 1/12/10

Required Date: 1/25/10

Comments: IPP REV:A NEW ISSUE 09-11-27 JLM VERIFIED BY :DD

Start Qty: 3.00

Required Qty: 3.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
M304B1.500X1.500		Purchased		No		100	f	20.9932	0.2526			

304 bar 1.50 X1.50

Warehouse Loc Qty Loc Code

Location

Main Warehouse

MAT

20.99315

108381

13.23

112752

7.76315

2187 + M.A 10/01/17

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	55218
Description: Hinge HALF, BASE	Part Number:	D 4016 - 1 .
Inspection Dwg: D4016 Rev: A		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article X Prototype

Measured by:	J.A.	Audited by:	S	Prototype Approval:	N/A.
Date:	10/01/17	Date:	10/01/18	Date:	

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	

8 7 6 5 4 3 2 1

D

D

C

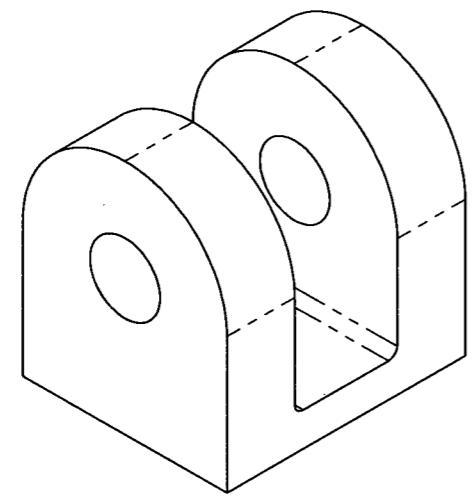
C

B

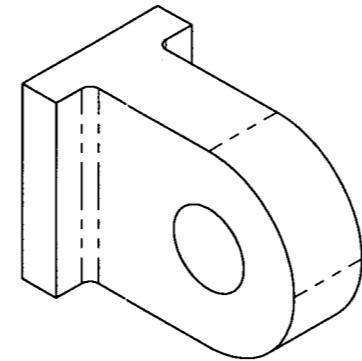
B

A

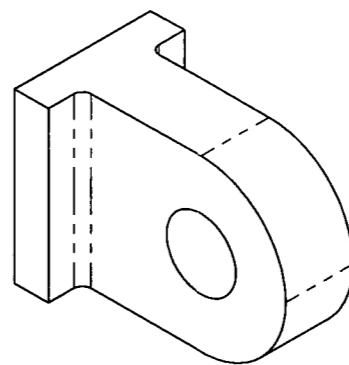
A



D4016-1 HINGE HALF, BASE



D4016-3 HINGE HALF, LID



D4016-5 HINGE HALF, LIGHT LID

PRELIMINARY ISSUE

15S 10.01.15

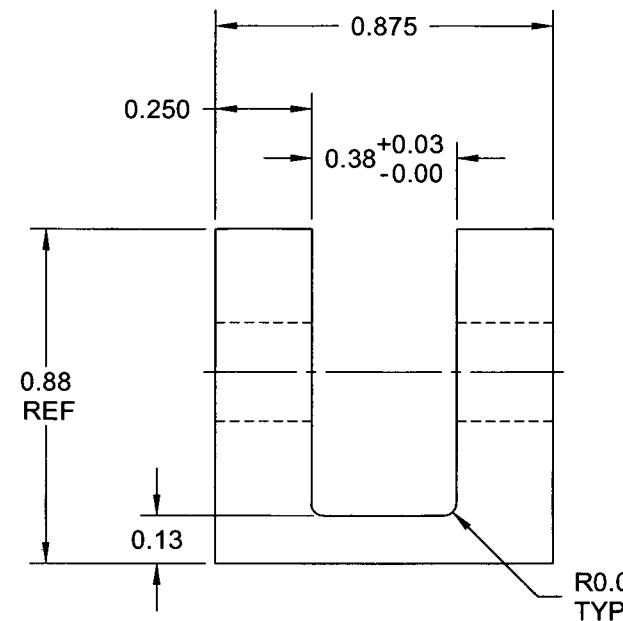
A	PRELIMINARY (2) SHEET 2, -1, 0.875 DIM WAS 0.88 & 0.38 DIM WITH TOLERANCE WAS "0.38 MIN"		AJS	09.12.04
A	PRELIMINARY (1)		AJS	09.11.19
REV.	DESCRIPTION		BY	DATE
DESIGN	AJS	DART AEROSPACE LTD		
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA		
CHECKED		DRAWING NO.	REV. A	
MFG. APPR.			D4016	
APPROVED		TITLE	SCALE	
DE APPR.			BASKET HINGE	
DATE	09.12.04		NTS	
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8 7 6 5 4 3 2 1

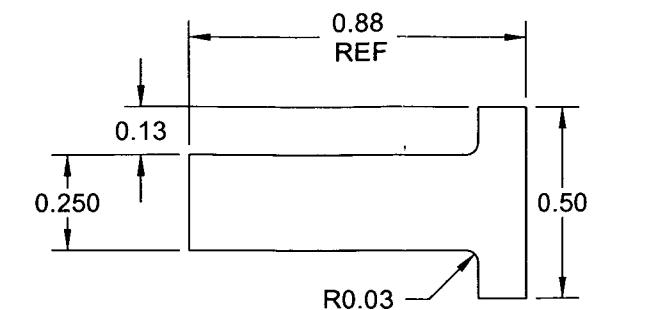
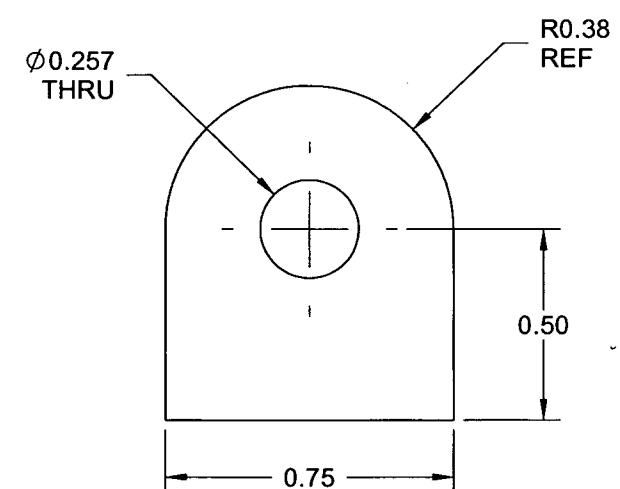
8 7 6 5 4 3 2 1

D

D



D4016-1 HINGE HALF, BASE



D4016-3 HINGE HALF, LID

D4016-5 HINGE HALF, LID

NOTES:

- 1) MATERIAL -1 & -3: 304/316 STAINLESS STEEL BAR, PER ASTM A276
PER DART SPEC M304B
- 5: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR,
PER QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT -1: 0.09 lbs
-3: 0.04 lbs
-5: 0.01 lbs

PRELIMINARY ISSUE
AJS 10.01.15

DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	AJS	
CHECKED		DRAWING NO.
MFG. APPR.		REV. A
APPROVED		D4016
DE APPR.		SHEET 2 OF 2
DATE	09.12.04	TITLE
		SCALE
		NTS
		BASKET HINGE
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		NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
		WRITTEN PERMISSION FROM DART AEROSPACE LTD.

8 7 6 5 4 3 2 1

A

Receiving Report

Date: 9/9/23

Batch No: M12782

Supplier: MAGNA

Dart P/O: 10442

Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No N/A
 Shipment Complete: Yes No N/A
 QC6 Inspection
 Work Order 07/08/23

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
<u>M3uy30 svu X012.00</u>		<u>12</u>	<u>0</u>	<u>0</u>	<u>12</u>	

Initials of receiver (if shipment OK) Level 12 

Production/Admin:

Date

Received/Costing

Initial

9/9/23
LL

Location

Pg 1 of 1

I017036

RECEIVED
SEP 28 2009

SOLD TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY , ON
K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY , ON
K6A 1K7

MTR : Y

INVOICE DATE:	09/23/09
ORDER DATE:	09/22/09
SHIP DATE:	09/23/09
ORDER NUMBER:	W018754
PURCHASE ORDER:	PO10442

Currency	Sales Person	Ship Via	F.O.B.	Terms
CANADIAN DOLLARS	ERYCK BLAIS	NIR:R-557065-1	PREPAID	NET 30 DAYS

Ln	Back Ordered	Ordered	Unit	Description	Shipped	Price Per	Value
		2	PC	ALUMINUM FLATS AFL 6061 T6 3/16" x 4" x R/L L030769 20' 2 PC/34 LB	2 UN	40.00	80.00
		5	PC	STAINLESS ROUNDS SRB 303 3/4" x R/L L031096 12'1" 5 PC/92 LB	5 UN	48.00	240.00
		1	PC	STAINLESS SQUARES SSQ 304 CD 1-1/2" x R/L L029079 12'7" 1 PC/94 LB	1 UN	595.00	595.00

09/24/09 11:22:55	Merchandise:	915.00
	Surcharges:	
	No Tax Costs:	
	GST	45.75
	Total Due:	960.75

Title to the goods sent out on this invoice remains with Magna Stainless Div of CSM ULC until such time as this invoice has been paid in full. Unless otherwise noted terms are 30 days. Interest accrues on all overdue accounts at the rate of 1.5% per month compounded monthly.

Q.S.T. # 1213236471
G.S.T. # 881565899 RT0001

I017036

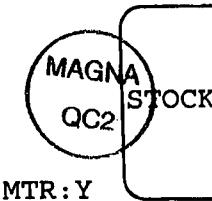
Page: 1 of 1

SOLD TO:
 DART AEROSPACE LTD
 1270 ABERDEEN STREET

HAWKESBURY , ON
 K6A 1K7
 Contact: CHANTAL

SHIP TO:
 DART AEROSPACE LTD
 1270 ABERDEEN STREET

HAWKESBURY , ON
 K6A 1K7
 Ship Terms: PREPAID



SPECIAL INSTRUCTIONS

MTR: Y

Currency	Sales Person	Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS	ERYCK BLAIS	(613) 632-5200	(613) 632-1053	PO10442	
Sales Order	Terms	Ship Via	Date Ordered	Date Required	Date Shipped
W018754	NET 30 DAYS	NIR:R-557065-1	09/22/09	09/23/09	09/23/09

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
2		PC	ALUMINUM FLATS AFL 6061 T6 3/16" x 4" x R/L <u>20'</u> 34 LB / <u>2</u> PC	L030769	09040131A	2
5		PC	STAINLESS ROUNDS ERB 303 3/4" x R/L <u>12'1"</u> 92 LB / <u>5</u> PC	L031096	423312	5
1		PC	STAINLESS SQUARES SQ 304 CD 1-1/2" x R/L <u>12'7"</u> 94 LB / <u>1</u> PC	L029079	247974	1
Bundles: 1				Total	Weight:	220 LB

Received by: _____ Date: _____ Signature: _____



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO10442

Purchase Order Date 9/22/09
PO Print Date 9/22/09

Page Number 1 of 2

Order From :

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

VC-MAG002

FAXED
6061-T6

Contact Name
Vendor Phone 800 363 6646
Vendor Fax 514 339 1105
Vendor Account Nbr

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M304B0.500X012.000	304 BAR .500 X 12.00	9/29/09 Yes	12.00 sf	Yours ppd	\$62.5000	\$750.00
2	M304B1.500X1.500	304 bar 1.50 X1.50	9/25/09 Yes	12.00 f 10.7	Yours ppd / 10.7 / 9/8/23	\$49.5830	\$595.00
3	M303R0.750	303 Round Bar 0.750	9/25/09 Yes	60.00 f 60.5	Yours ppd / 60.5 / 9/8/23	\$4.0000	\$240.00
4	M6061T6B0.187X04.000	6061-T6 Bar .178 x 4.00	9/25/09 Yes	40.00 f	Yours ppd / 40.00 / 9/8/23	\$2.0000	\$80.00

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 1

Change Date: 9/22/09

Purchase Order Receipt Listing

September 23, 2009 7:23:47 AM

Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO10442 All Receipt Dates All Line Item Types
 All Item ID/GL/WOs All Rec. Employees All Currencies
 Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-MAG002	Magna Stainless								
PO10442	2		M304B1.500X1.500 f		9/25/2009	9/23/2009	12.7000	\$49.58	0.0000	0	
CAD	No		304 bar 1.50 X1.50 f		12.0000	Stores		\$629.70	0.0000	0	\$629.70
			112752								
	3		M303R0.750 f		9/25/2009	9/23/2009	60.5000	\$4.00	0.0000	0	
	No		303 Round Bar 0.750 f		60.0000	Stores		\$242.00	0.0000	0	\$242.00
			112752								
	4		M6061T6B0.187X04. f		9/25/2009	9/23/2009	40.0000	\$2.00	0.0000	0	
	No		000					\$80.00	0.0000	0	\$80.00
			6061-T6 Bar .178 x 4.00 f		40.0000	Stores					
			112752								

Total Received Quantity:	113.2000
Total Qty to Inspect (PO U/M):	0.0000
Total Reject Quantity:	0.0000
Total Receipt Value:	\$951.70
Total Balance Due Quantity:	0.0000



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO10442

Purchase Order Date 9/22/09
PO Print Date 9/22/09

Page Number 2 of 2

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Requisition Nbr	
Vendor Fax	Tax Resale Nbr	10127-2607
Vendor Account Nbr	Terms	Net 30
	Currency	CAD
	FOB	

Special Inst: MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR 4117/4128/4115/4116 OR AMS4160
ASTM B211 OR ASTM B221

PO Total: \$1.665.00

**MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 1

Change Date: 9/22/09

CAN ART
ALUMINUM EXTRUSION INC.

Material Test Report

70927

Customer Ship To:

ASA Alloys Inc.
81 Steinway Blvd.

Etobicoke
ON M9W 6H6

Our Order: 829867 - 1
Your PO #: 78553-RK
Part #: 05514-000-240
Die: LS05514
Description: .188 x 4.000
Alloy Temper: 6061 T6511
Print Date: 4/29/2009

Chemical Properties

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	others each	others total	Al
0.40-0.8	0.7 max	0.15-4.0	0.15 max	0.8-1.2	0.04-0.35	0.25 max	0.15	0.05	0.15	remain

Mechanical Properties

Strength ksi

Test ID	Test Date	CastNum	Ultimate	Yield (2% Offset)	Elongation (2" gage length)
232355t	4/20/09	09040131A	43.40	40.23	14.3

Applicable Specifications: ASTM B221-08 ASTM B308-02 ASTM B429 QQA200/8 QQA200/16

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Eric Hotte - Tensile Testing

Authorized


Evan Eng, Quality Assurance Mgr.

70927-09040131A

Acciaierie Valbruna S.p.A.



36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Fournisseur/producer

Oggetto Prove: - Annealed Cold Drawn
Prüfgegenstand/Item Inspected/Objet

Aviso di Spedizione: D-VI09017149
Uferanzeige/Packing Ref/B.L.

Ordine nr: 907002333 Stock - Canada
Bestell/Votre order/Commande

Tipo di Elaborazione: E+AOD
Einhämmern/contouring process/Méthode d'élaboration

CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005), 3.1

Certificato nr: MEST774991/2009/
Prüfung/Test/Essai

Conferma ordine nr: EI09004135
Werks/Our/Our/Ref nr.

Marchio di Fabbrica:
Zeichen des Herstellers
Trade mark
Signe de l'usine productrice



Punzone del Collaudatore:
Stampo des Werksachverständigen
Inspector's stamp/Pointon de l'assayeur

Specifiche:
Anforderungen / Requirements / Exigences

VAL CANADA 2 303 A,CF
ASTM A314 2008 S30300
DOD-F-24669 6 S30300
(0) SEC.II PT.A 2007 EDITION ADD. 2008a

AMS 5640 U TYPE1
ASTM A320 2008 B8F
MIL-S-862 B/1 303

ASME SA320 2007 B8F (0)
ASTM A582 2005 S30300
QQ-S-764 B/2 303

Qualità: 303
Workshop/Grade/Qualité

Marca: MV188ZHS MAXIVAL

Markenbezeichnung/Brand/Numéro

Pos. nr. Pos. nr. Nr. do peca	Objetto Geobjekt Produkt Description Descriptif du produit	Dimensioni - In Abmessung Dimensions Dimension	Tolleranza Toleranz Allowance Tolerance	Lunghezza - In Länge Longeur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Picces Pieces	Peso - LB Gewicht Weight Poids	Lotto nr. Lotti nr. Lot nr.
0010	Round	0,7500	484-06B	146 / 147	423312		4.744	834700760

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind erfüllt.
The material has been furnished in accordance with the requirements.
La matière a été fournie conformément aux exigences.

Controllo antimescolanza: OK
Verwendungsprüfung: spezialschmiedisch durchgeführt
Annealing testing performed: OK
Contrôle antimélangage fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze:
Beobachtung und Ausmessung: ohne Bestrebung
Visual inspection and dimensional check:satisfactory
Contrôle visuel et dimensions: satisfaisant

TEST ALLO STATO DI FORNITURA									
TEST	Test on delivery condition		Prüfung auf lieferbereitem produkt		test a fato da forniture		Prueba sobre el material así como entregado		Durezza Härte Hardness Dureza HB
	Prova/tal// Schnellprobe/ Last Wach. Dicke Wach. Dicke mm	°F Posiz. Saggio Position Temperature n	Sforzamento Schnellprobe/ Last Rp 0,2% k.s.i.	Sforzamento Schnellprobe/ Last Yield Stress Ultima resistenza	Resistenza Schnellprobe/ Last Rm k.s.i.	Allungamento Dehnung Elongation Allongement	Strizione Elastizität Reduction of area Elasticité Elongation Reduction RA	Rosilienza Kehrkrautwiderstand Impact Value Resistance	
Valori richiesti 1 Anforderungen/Required values Valores demandados	min max	30	-	75	-	35	-	50	-
A 12,5	68 L	70		101		43		51	140 241
									239

l=lunghezza/length, t=sorvolo/quer, Q=Temperatura/temperature

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata Riso Schmelze/Coulée	min - max 0,150	1,00	2,00	17,00	10,00	0,60	1,00	8,00 10,00	1,00	0,15	0,40	0,400	:	:	:	:	:
423312	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	Zr %	0,004					

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940 °F for 3,5h/walz

Micro and macro etch test: OK

Material is DFARS Compliant

Melted and manufactured in Italy No welding or weld repair

Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1,6.,4.3 by TUEV and LLOYD'S

Vicenza, 29/07/09

VOC010
(Mod. MCEN)

Il collaudatore di stabilimento / der Werkssachverständiger / Works inspector / L'agent d'usine

M.Rizzotto

Pagina - 1 di 1

P606632 - 423312

Acciaierie Valbruna s.p.a.



36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cliant
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Herasteller/Usine productrice

Oggetto Prova: - Annealed Cold Drawn
Prüfgegenstand: Inspected/Examined

Specifiche:
Anforderungen / Requirements / Exigences

VAL CANADA 2 304/304L A,CF
ASME SA182 2007 S30400/03 0
ASME SA479 2007 S30400/03 3
ASTM A262 2002A PRACTICE E
ASTM A320 2008 B8
NACE MR0175* 2003 S30400/03 A s
(0) SEC.II PT.A 2007 EDITION ADD. 2008a
(1) SEC.II PT.A 2007 EDITION ADD. 2008a
(3) SEC.II PT.A 2007 EDITION ADD. 2008a
(5) * ISO 15156-3

AMS 5639 H S30400
ASME SA193 2007 B8 1
ASTM A182 2008A S30400/03 4
ASTM A226 2008A S30400/03
ASTM A479 2008 S30400/03
QQ-S-763 F 304/304L

CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005), 3.1

Avviso di Spedizione: D-VI09004155
Uhrzeit/Zeit/Packing list/B.L.

Ordine nr: 902002141 Stock - Canada
Bestell/Votre ordre/Commande

Tipo di Elaborazione: E+AOD
Erschmelzungs/Melting process/Mode d'elaboration

Certificato nr: MEST721442/2009/
Prüfung/Test/Essai

Conferma ordine nr: EI09000528
WerksOrd/OrderRef nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Signe de l'usine productrice

Punzone del Collaudatore:
Stampel des Werksachverständigen
Inspector's stamp/Pointage de l'assesseur



Qualità: T-304L
Werkstoff/Graint/Nuance

Marca: AISL

Markenbezeichnung/Brand/Nuance

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Geplante Produkt Descrip. du produit	Dimensioni - In Abmessungen Dimensions Dimension	Tolleranza Toleranz Allowance Tolerance	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Couture	Pezzi Stückzahl Pieces Peces	Peso - LB Gewicht Weight Poids	Lotto nr. Lotnr. Lot nr. Lot no.
0020	Square	1,5000 x 1,5000	484-06B	147 / 147	247974		2.344	807901180

Sono state soddisfatte tutte le condizioni richieste
die gesetzten Anforderungen sind erfüllt
The material has been furnished in accordance with the requirements
Le matériau a été trouvé conforme aux exigences

Controllo antimolescolanza: OK
Vorzeichungstestung: spezifisch/physikalisch durchgeführt
Antimöglichkeit testing performed: OK
Contrôle antimoléculaire fait: r.s.e.

Controllo visivo e dimensionale: soddisfa le esigenze:
Besichtigung und Ausmessung: ohne Bearbeitung
Visual inspection and dimensionnal checks:satisfactory
Contrôle visuel et dimensionnel: satisfactor

TEST	Provettiva/Netzwerk Spannungskontrolle Lang. dem. Spez. Widerstand, Dicke Widerstand, Dicke Lang. diam. spalt mm	°F Posiz. Staglio Position Lame Lame	Serravimento Spannung Vergleich Unterstützung Unterstützung Rp 0,2% k.s.i.	Serramento Spannung Vergleich Unterstützung Unterstützung Rp 0,2% k.s.i.	Resistenza Zugfestigkeit Tensile strength Resistencia a la tracción Rm k.s.i.	Allungamento Buchstabe Elongation Allongement	Stiriazione Ermüdbarkeit Fatigue area Endurance	Resilienza Konsistenzfestigkeit Impact value Resistance	Durezza Härte Härte HB 1/2 r				
	Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max	30	-	75	-	40	-	50	-			
A	12,5	68	L	61		98		50		69		207	

Grain size for ASTM E112 : 5

IK=longitudinale/R, T=trasversale/T, O=Tangenziale/Tangential

Analisi chimica

Chimische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Couture	min- max 0,030	1,00	2,00	18,00 20,00	1,00	1,00	6,00 10,50		0,040	0,030	0,100			
247974	0,024	0,39	1,65	18,19	0,49	0,58	8,08	0,090	0,031	0,026	0,090			

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 1 h/water.

Micro and macro etch test: OK

Intergranular corrosion test per ASTM A262 pract. E: ok.

Material is DFARS Compliant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination
The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1,s.4.3 by TUEV and LLOYD'S

LOAD 30492

23 Bw/valoy

Vicenza, 20/02/09
VC0008
(Mod. MCRA)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine

M.Rizzotto / Ruzzo

Pagina - 1 di 1

Chantal Lavoie

From: Eryck Blais [eblais@magnastainless.com]
Sent: September 21, 2009 1:29 PM
To: 'Chantal Lavoie'
Subject: RE: quote

THANK YOU
ERYCK

From: Chantal Lavoie [mailto:clavoie@dart Aero.com]
Sent: Monday, September 21, 2009 12:03 PM
To: Eryck Blais
Subject: quote

Please advise price & delivery on material.
304 bar .500" x 12" x 12 ft \$750.00 1 PC 3-5 DAYS
304 bar 1.5" x 1.5" x 12 ft 1 PC 595.00 EACH STK ✓✓
303 round bar .750" x 60 ft 5 PCS 48.00 EACH STK
6061T6 bar .187" x 4" x 40 ft 2 PCS \$40.00 EACH STK
Thanks
Chantal

(